

IN THE CLAIMS:

On page 15 line 1 please cancel "Claims" and substitute:

--WE CLAIM AS OUR INVENTION-- therefor.

Cancel claims 1-14.

5 1-14 (Cancelled)

Add the following new claims:

- 15 (New) A magnetic resonance tomography device comprising:  
a toroidal magnet shell having a longitudinal axis and surrounding and  
defining an interior cylindrical volume radially centered with  
respect to said longitudinal axis;  
a similarly toroidal magnet body disposed in said interior volume;  
an encapsulation cyclinder, defining a cylindrical surface of said  
cylindrical volume;  
a switchable gradient coil system disposed between said cylindrical  
surface and said magnet body; and  
a capsule completely enclosing a radial outer surface of said magnet  
shell and connected to said encapsulation cylinder with an  
acoustically sealed connection for preventing acoustic  
vibrations, generated during switching of said switchable  
gradient coil system and transmitted to said magnet shell, from  
penetrating into said radial outer surface, said capsule  
comprising a three-layer system having an outermost cover  
layer, a center layer comprising a full foam layer, and an inner  
layer comprising a partial foam layer containing foam elements  
in a form selected from the group consisting of foam patches  
and foam strips.  
20  
25  
16. (New) A magnetic resonance tomography device as claimed in  
claim 15 wherein said cover layer has a high mass per unit area.

17. (New) A magnetic resonance tomography device as claimed in claim 15 wherein said three-layer system has a thickness, and wherein said full foam layer comprises approximately two thirds of said thickness and wherein said partial foam layer comprises approximately one third of said thickness.

18. (New) A magnetic resonance tomography device as claimed in claim 15 wherein said partial foam layer has a surface fill coefficient in a range between 15% and 25% foam.

19. (New) A magnetic resonance tomography device as claimed in claim 15 wherein said foam elements each have a width of approximately 5 cm.

20. (New) A magnetic resonance tomography device as claimed in claim 15 wherein said capsule comprises cutouts at a plurality of locations therein.

15 21. (New) A magnetic resonance tomography device as claimed in claim 20 wherein each cutout comprises an air bridge formed by foam strips with graduated offset teeth forming a labyrinth, through which air can penetrate but which attenuates acoustic vibration.

22 (New) A magnetic resonance tomography device as claimed in claim 15 comprising a cylindrical RF resonator disposed in a center of said encapsulation cylinder, and comprising cylindrical carrier tube extension pieces giving said RF resonator a longitudinal length that is greater than a longitudinal length of said gradient coil system, and comprising tongues disposed at said extension pieces.

25 23. (New) A magnetic resonance tomography device as claimed in claim 22 wherein said capsule is flange-mounted with an acoustically sealed connection on said tongues and said extension pieces.

24 (New) A magnetic resonance tomography device as claimed in claim 22 wherein said extension pieces expand in a tapered manner at a front of said encapsulation cylinder.

25. (New) A magnetic resonance tomography device as claimed in  
5 claim 22 comprising reinforcing rings disposed at outer ends of said tongues.

26. (New) A magnetic resonance tomography device as claimed in claim 22 comprising additional reinforcement at said tongues.

27. (New) A magnetic resonance tomography device as claimed in claim 26 wherein said additional reinforcement comprises rails.

10 28. (New) A magnetic resonance tomography device comprising:  
a toroidal magnet shell having a longitudinal axis and surrounding and defining an interior cylindrical volume radially centered with respect to said longitudinal axis;  
a similarly toroidal magnet body disposed in said interior volume;  
15 an encapsulation cylinder, defining a cylindrical surface of said cylindrical volume;  
a switchable gradient coil system disposed between said cylindrical surface and said magnet body; and  
said capsule comprising a three-layer system comprising and  
20 outermost cover layer, a center layer comprising a partial foam layer containing foam elements in a form selected from the group consisting of foam patches and foam strips, and an innermost layer comprising a full foam layer.

29. (New) A magnetic resonance tomography device as claimed in  
25 claim 28 wherein said cover layer has a high mass per unit area.

30. (New) A magnetic resonance tomography device as claimed in claim 28 wherein said three-layer system has a thickness, and wherein said full foam layer comprises approximately two thirds of said thickness and

wherein said partial foam layer comprises approximately one third of said thickness.

31. (New) A magnetic resonance tomography device as claimed in claim 28 wherein said partial foam layer has a surface fill coefficient in a range 5 between 15% and 25% foam.

32. (New) A magnetic resonance tomography device as claimed in claim 28 wherein said foam elements each have a width of approximately 5 cm.

33. (New) A magnetic resonance tomography device as claimed in 10 claim 28 wherein said capsule comprises cutouts at a plurality of locations therein.

34. (New) A magnetic resonance tomography device as claimed in claim 33 wherein each cutout comprises an air bridge formed by foam strips with graduated offset teeth forming a labyrinth, through which air can 15 penetrate but which attenuates acoustic vibration.

35 (New) A magnetic resonance tomography device as claimed in claim 28 comprising a cylindrical RF resonator disposed in a center of said encapsulation cylinder, and comprising cylindrical carrier tube extension pieces giving said RF resonator a longitudinal length that is greater than a 20 longitudinal length of said gradient coil system, and comprising tongues disposed at said extension pieces.

36. (New) A magnetic resonance tomography device as claimed in claim 28 wherein said capsule is flange-mounted with an acoustically sealed connection on said tongues and said extension pieces.

25 37 (New) A magnetic resonance tomography device as claimed in claim 35 wherein said extension pieces expand in a tapered manner at a front of said encapsulation cylinder.

38. (New) A magnetic resonance tomography device as claimed in claim 35 comprising reinforcing rings disposed at outer ends of said tongues.

39. (New) A magnetic resonance tomography device as claimed in claim 35 comprising additional reinforcement at said tongues.

5 40. (New) A magnetic resonance tomography device as claimed in claim 39 wherein said additional reinforcement comprises rails.